cascade of planes

Posted by adehoces - 2007/12/26 10:36

Hello! I am a bit confused about watershed configuration in channels and planes. From my own experience and what I have read in http://www.tucson.ars.ag.gov/kineros, each channel can have only two lateral contributors (planes). However, I am also having a look at the document 'KINEROS, A Kinematic Runoff and Erosion Model' (ARS-77, 1990) and in figure 2, page 5, appear cascades of planes contributing to the same channel. My question is the following: Can I still produce a cascade of planes or do I have to play with the parameterization step until I get appropriate values representing the whole of the plane? and, if the answer is yes, How can I do it ?
Thanks a lot for your help and happy new year!
Ana

==========

Re:cascade of planes

Posted by isburns - 2007/12/28 19:52

The short answer to your question is no, you cannot produce a cascade of planes contributing to the same channel using AGWA. The limitation to two lateral elements for each channel element is a result of the discretization process, not because KINEROS doesn't support it.

Lowering the CSA during the discretization step will result in more elements being supported, but typically these will begin at the uplands and propagate down into the lateral elements more slowly. New discretization features are being worked on that will help make plane elements more uniform in size, but there are no plans to speak of to post-process the discretization to allow for the addition of cascading planes.

Shea

==========

Re:cascade of planes

Posted by sarahjenkins - 2008/08/12 10:49

Many thanks for this fine post. Lots to learn here

==========